

# The American Midland Naturalist

Founded by J. A. Nieuwland, C.S.C.

## Editor

Arthur L. Schipper, Zoology

## ASSOCIATE EDITORS

B. D. Burks, Washington, D. C. ....	Entomology
Aureal T. Cross, Morgantown, W. Va. ....	Paleobotany
Albert L. Delisle, Amherst, Mass. ....	Plant Morphology
Carroll Lane Fenton, New Brunswick, N. J. ....	Invertebrate Paleontology
George Neville Jones, Urbana, Ill. ....	Plant Taxonomy
Remington Kellogg, Washington, D. C. ....	Mammalogy
Jean Myron Linsdale, Carmel Valley, Calif. ....	Ornithology
George Willard Martin, Iowa City, Ia. ....	Mycology
John D. Mizelle, Notre Dame, Ind. ....	Invertebrate Zoology
Hugh M. Raup, Petersham, Mass. ....	Plant Ecology
Loren P. Woods, Chicago, Ill. ....	Ichthyology and Herpetology

Vol. 55, 1956

(January, April)

PUBLISHED BY THE UNIVERSITY OF NOTRE DAME  
NOTRE DAME, INDIANA

# CONTENTS

No. 1, January, 1956

Studies on the Male Reproductive System of the California Pocket Gopher ( <i>Thomomys bottae navus</i> Merriam) .....	W. C. Gunther	1
Variation in the Fox Squirrel in Florida .....	Joseph Curtis Moore	41
The Natural History of a Summer Aggregation of the Big Brown Bat, <i>Eptesicus fuscus fuscus</i> .....	John J. Christian	66
Foot-stirring as a Feeding Habit of Wood Ibis and Other Birds .....	A. L. Rand	96
Growth and Development of the Green Frog, <i>Rana clamitans</i> , Under Natural Conditions .....	Bernard Martof	101
Age and Growth of Two Important Bait Species in a Cold-Water Stream in Southern Illinois .....	Gerald E. Gunning and William M. Lewis	118
Notes on the Ecology of <i>Zonitoides arboreus</i> (Say), <i>Opeas pumilum</i> (Pfeiffer), and <i>Lamellaxis gracilis</i> (Hutton) in Greenhouses .....	Edward J. Karlin	121
Studies on the Filth Flies at the University of Michigan Biological Station, Douglas Lake, Michigan — Summer 1954 .....	Roger W. Williams	126
Analysis of a Population of the Tropical Freshwater Shrimp, <i>Atya scabra</i> (Leach) .....	Reznear M. Darnell	131
Studies on the Morphology and Biology of <i>Acetodextra amiuri</i> (Stafford) (Trematoda: Heterophyidae) .....	Kenneth W. Perkins	139
North American Freshwater Tetraonchinae .....	John D. Mizelle, Paul S. Stokely, Benjamin J. Jaskoski, Aaron P. Seamster, and Lawrence H. Monaco	162
A New Species of Rhamnocercinae .....	Aaron Seamster and Lawrence H. Monaco	180
Notes on Fungi from Mississippi I. Aquatic Phycomycetes .....	T. W. Johnson, Jr.	185
Florida Scytonemataceae I. ....	C. S. Nielsen and Grace C. Madsen	194
Taxonomy of American Atriplex .....	Grant Dukelow Brown	199
A Revision of the <i>Rosa Californica</i> Complex .....	Donald Cole	211
The Opuntiae of the Big Bend Region of Texas .....	Margery Anthony	225

## No. 2, April, 1956

Mammals of the Graham (Pinaleno) Mountains, Arizona .....	Donald F. Hoffmeister	257
Natural Terrestrial Communities of Brewster County, Texas with Special Reference to the Distribution of the Mammals .....	H. Arliss Denyes	289
Relative Toxicity of Certain Chemical Agents at Low and Room Temperature in a Homeotherm (Mouse) and a Poikilotherm (Frog) .....	William A. Hiestand, Fred W. Stemler and Ruth F. Madden	321
The Appendicular Myology of the Pygmy Falcon ( <i>Polihierax semitorquatus</i> ) .....	Andrew J. Berger	326
Apparatus to Measure Forces Involved in the Landing and Taking Off of Birds .....	Harvey I. Fisher	334
A New Subspecies of <i>Plethodon welleri</i> , with Notes on Other Members of the Genus .....	Gordon R. Thurow	343
The Gnathosoma of <i>Megalolaelaps ornata</i> (Acarina — Mesostigmata — Gamasides) .....	Flora Gorirossi Bourdeau	357
Comparison of the Gastropod Fauna in the Drainage Systems of Champaign County, Illinois .....	Ralph W. Dexter	363
A Field Study of Wild Mammals and Fleas of Santa Fe County, New Mexico .....	R. Holdenried and Harvey B. Morlan	369
Comparative Infestations by Ectoparasites of Two Native Rats of Sansapor, New Guinea .....	Carl O. Mohr	382
Kinds and Distribution of Wild Rodents and Their Ectoparasites in Egypt .....	M. S. Briscoe	393
A Clarification of the Species of the Genus <i>Typhloplana</i> .....	John G. Mahan	409
The Catenula of the Eastern United States .....	John W. Nuttycombe	419
Intestinal Parasitism of Some Mid-Western Salamanders .....	Thomas D. Malewitz	434
On <i>Sporangiostrobos Langfordi</i> sp. nov., a New Fossil Lycopod Cone from Illinois .....	W. G. Chaloner	437
The Breeding Systems of <i>Lupinus</i> , Group <i>Micranthi</i> .....	David B. Dunn	443
The Curious Anther of <i>Bixa</i> — Its Structure and Dehiscence .....	C. S. Venkatesh	473
<i>Pugillus Astragalorum</i> XVIII: Miscellaneous Novelties and Reappraisals .....	R. C. Barneby	477
<i>Pubillus Astragalorum</i> XIX: Notes on <i>A. sericoleucus</i> Gray and Its Immediate Relatives .....	R. C. Barneby	504
Book Reviews .....		508
Index to Vol. 55 .....		510

